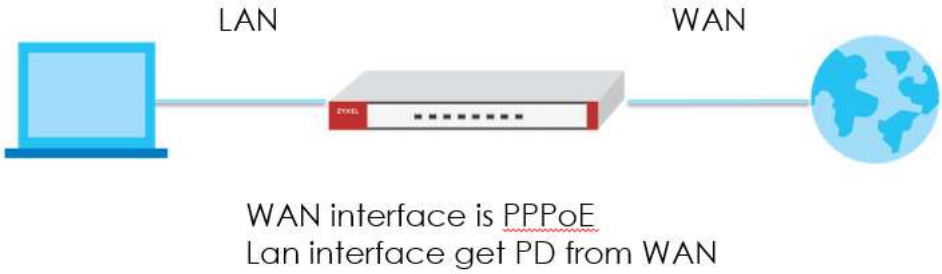
IPv6 over PPPoE on the WAN

This example shows how to configure your ATP/USG Flex's WAN interface as PPPoE with prefix delegation. Device PPPoE interface run as DHCP client to get prefix and DNS from ISP.

In this scenario:
PPPoE interface run as DHCP client to request prefix delegation and DNS server from ISP.



Note:
All network IP addresses and subnet masks are used as examples in this article. Please replace them with your actual network IP addresses and subnet masks. This example was tested using ATP/USG Flex (Firmware Version: 5.00)

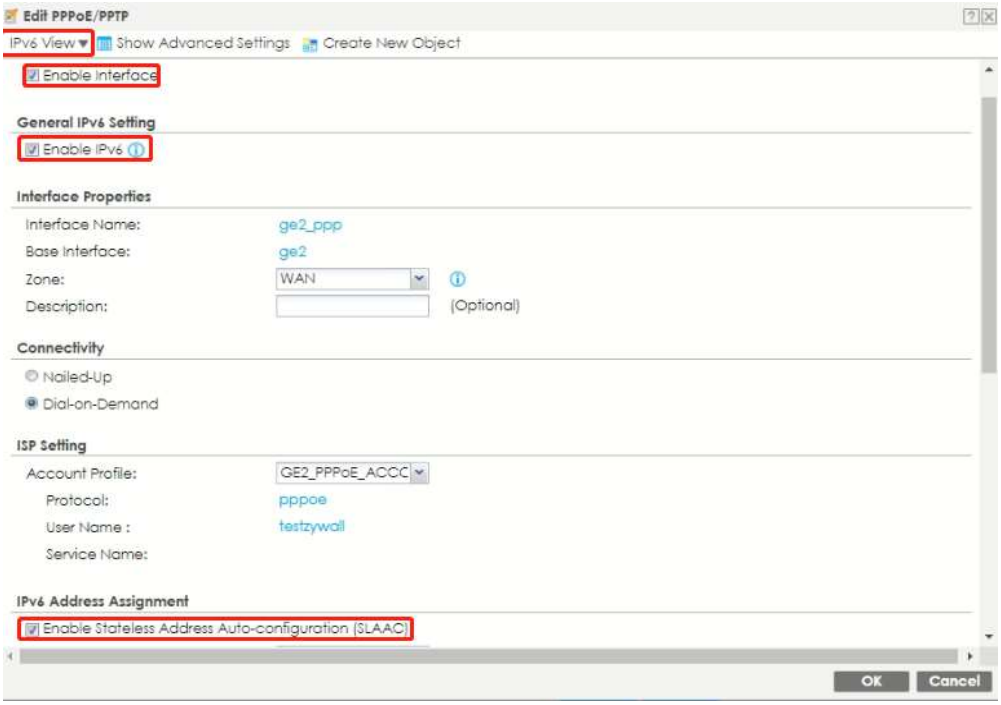
Setting Up the IPv6 Interfaces

Wan

1. In the Configuration > Network > Interface > PPP Configuration section, double-click the PPP interface you want to modify.

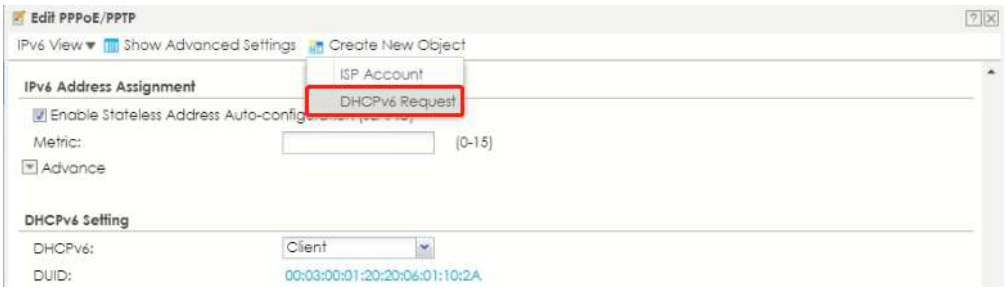
2. Select account profile in ISP Setting.

3. Choose IPv6 View, Enable Interface and Enable IPv6. In IPv6Address Assignment text box, enable Stateless Address Auto-configuration (SLAAC)



4. Set up interface as V6 client.

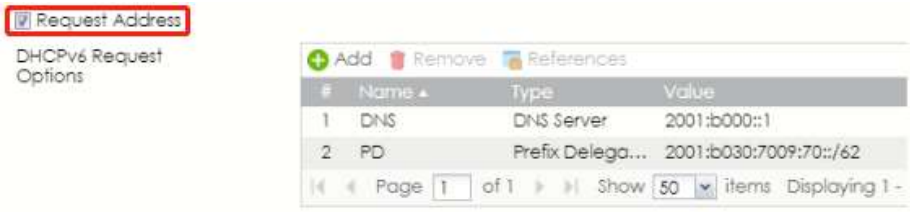
5. Create DHCPv6 Request object to get Prefix Delegation and DNS from ISP.



DNS object

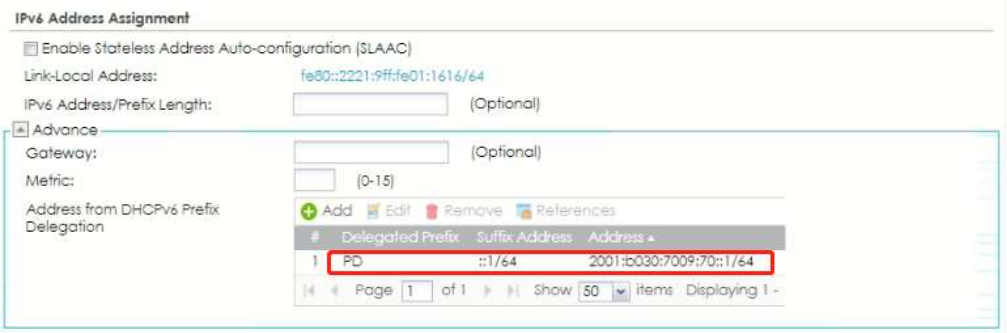
Prefix delegation

6. Tick Request Address.



Lan

1. In the Configuration > Network > Interface > Ethernet Configuration section, double-click the LAN interface you want to modify.
2. LAN interface IP assignment gets from Prefix Delegation and Suffix setting. In this case, we set suffix to ::1/64



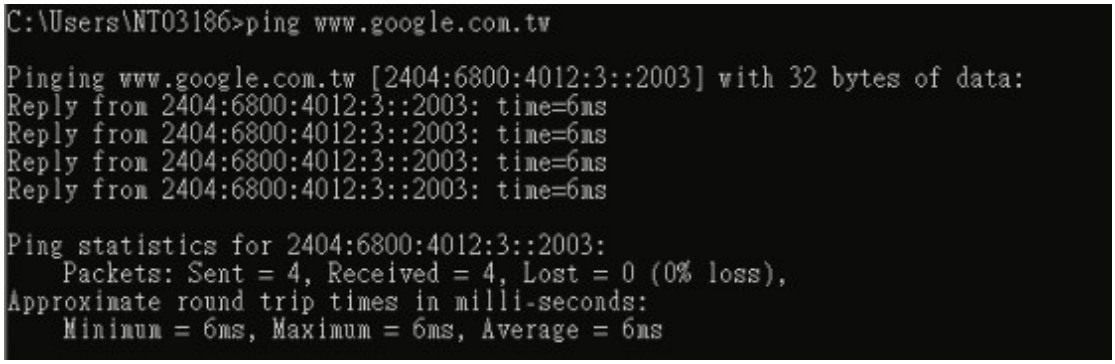
3. Tick "Enable Router Advertisement", "Advertised Hosts Get Network Configuration From DHCPv6", and "Advertised Hosts Get Other Configuration From DHCPv6".

4. Set up Advertised Prefix from DHCPv6 Prefix Delegation.

Test Result

Client IPv6 address.

Ping to Google web site.



Test Your IPv6 connection.